

Notice of Allowability	Application No.	Applicant(s)	
	09/687,777	PATEL, MUKESH	
	Examiner	Art Unit	
	CHAMELI C DAS	2122	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the RCE and Terminal Disclaimer filed on 11/1/2004.
2. ☒ The allowed claim(s) is/are 43, 50, 52, 54, 56, 109-121, 126-128 (newly numbered claims are 1-21).
3. ☒ The drawings filed on 20 January 2000 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 12/23/04.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>12/23/04</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

Art Unit: 2122

1. This action is in response to the RCE and the Terminal Disclaimer filed on 11/1/2004.
2. Claims 1-42, 44-49, 51, 53, 55, 57-108 have been canceled.
3. Claims 43, 50, 52, 54, 56, 119, 122-123, and 126 have been amended.
4. In view of the Terminal Disclaimer filed on 11/1/2004, the double patenting rejection of claims made in the earlier office action is hereby withdrawn.
5. Claims 43, 50, 52, 54, 56, 109-121, 126-128 have been allowed.

EXAMINER'S AMENDMENT

6. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Vani Moodley, Attorney for the Applicant on 12/23/04.

The application has been amended as follows:

In the specification:

- (i) On page 5, line 17, "Figure 7 is a" has been replaced by -- Figures 7A -- 7D are the --.
- (ii) On page 7, line 6, "Figures 1-7" has been replaced by -- Figures 1-7D --.

In the Drawings:

- (i) Figures 1-7D should be labeled as "PRIOR ART".

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In the claims:

- (i) Claims 122-125 have been canceled.
- (ii) Claims 43, 50, 52, 54, 56, 119, and 126 need a period (.) at the end of the sentence of the claims.

REASON FOR ALLOWANCE

7. The following is an examiner's statement of reasons for allowance:

The cited prior art taken alone or in combination fail to teach, in combination with the other claimed limitations, a hardware accelerator to process stack-based instructions in cooperation with a CPU core, wherein the hardware accelerator marks variables associated with the stack-based instructions in the register file as modified when the variables are updated as a result of the processing of the stack-based instructions to enable selective writing of the variables marked as modified to a memory, as recited in the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reason for Allowance".

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

TITLE: Real time program language accelerator, US 6606743 B1.

TITLE: Object-oriented multi-media architecture, US 5946487 A.

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TITLE: Fast, Effective Code Generation in a Just-in-time Java Compiler, author: Reza et al, ACM, May 1998.

TITLE: A Software High Performance APL Interpreter, author: Saal et al, ACM, 1979.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chameli Das whose telephone number is 571-272-3696. The examiner can normally be reached on Monday-Friday from 6:30 A.M. to 3:00 P.M. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Tuan Dam can be reached at 571-272-3695. The fax number for this group are:

(703) 746-7239 (official fax), (703) 746-7240 (non-official/draft), (703) 746 -7238 (after final).

An inquiry of general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is 703-305-9600.

Chameli C. Das
CHAMELI C. DAS
PRIMARY EXAMINER

12/23/04